

The South China Iron Works, Ltd.

ENGINE TESTING DATA

NO. 58091

Engine No. D58925729

Date: 20th Sept. 1958.

ENGINE: SOUTHIRON DIESEL type POWER PD-126
2-cylinder, 4-stroke, 105 mm bore, 120 mm stroke,
Displacement 2.078 liters; Compression ratio: 17 to 1

ACCESSORIES: Radiator SOUTHIRON
& Fan SERCK Pump centrifugal Dynamo C.A.V. DBNBI52I Cooler SERCK
Manifold Air-cooled Crankshaft No. 253331

LABORATORY: Pump & dynamo were not included during testing
Assembling Shop. Observed by T.S. Fong
Dynamometer No. I. Dynamometer constant: 4000
Fuel Shell Desoline Sp Gr. 0.834 at 20 deg. C.
Lub Oil Shell Talpa SAE No. 30 SSU Visc 540-600 at 100° F.
Room Temp 78°F Humidity 73% Barometer 29.50 in. Hg.

TIME	RPM	LOAD LBS	BHP	AVER B.H.P.	LUB OIL		COOLING WATER TEMP °C				Remarks
					Press Kg/cm ²	Temp °C	Pump in	Manif out	Cyl in	Cyl out	
8:30	1500	60.0	22.50		8.0	65	22			68	
9:00	1500	60.0	22.50		8.0	65	22			68	
9:30	1500	59.5	22.31		8.0	66	23			68	
10:00	1500	60.0	22.50		8.0	66	23			69	
10:30	1500	60.0	22.50		8.0	66	24			69	
11:00	1500	60.5	22.69		8.0	66	24			69	
11:30	1500	60.5	22.69		8.0	66	24			69	
12:00	1500	60.0	22.50		8.0	66	24			69	
12:30	1500	60.0	22.50	22.52	8.0	66	24			69	
					8.0	66	24			69	
											Fuel refilled to original level 41.50 lbs.

Fuel consumption (full-load condition) $\frac{41.50}{4 \times 22.52} = 0.461 \text{ lbs./h.p.-hr.}$

13:00	1600	62.0	24.80		8.0	66	24			70	
13:30	1600	62.0	24.80		8.0	66	24			70	
14:00	1600	62.0	24.80	24.80	8.0	66	24			70	
											Fuel refilled to original level 11.50 lbs.

Fuel consumption (10% over-load condition) $\frac{11.50}{24.80} = 0.464 \text{ lbs./h.p.-hr.}$

560224

2021
INSPECTION DEPARTMENT
Engineer-In-Charge.
Register
Foundation
012948-012453-0107